

State of California
AIR RESOURCES BOARD

EXECUTIVE ORDER A-6-411
Relating to Certification of New Motor Vehicles

GENERAL MOTORS CORPORATION

Pursuant to the authority vested in the Air Resources Board by the Health and Safety Code, Division 26, Part 5, Chapter 2; and

Pursuant to the authority vested in the undersigned by Health and Safety Code Sections 39515 and 39516 and Executive Orders G-45-3 and G-45-4;

IT IS ORDERED AND RESOLVED: That 1988 model-year General Motors Corporation exhaust emission control systems are certified as described below for gasoline-powered light-duty trucks:

<u>Engine Family</u>	<u>Displacement Liters (Cubic Inches)</u>	<u>Exhaust Emission Control Systems (Special Features)</u>
J3G2.5T5TEGX	2.5 (151)	Exhaust Gas Recirculation Three-Way Catalyst Oxygen Sensor (Central Fuel Injection) (On-Board Diagnostics)

Vehicle models, transmissions, engine codes and evaporative emission control families are listed on attachments.

The following are the emission standards for this engine family:

<u>Hydrocarbons Grams per Mile</u>	<u>Carbon Monoxide Grams per mile</u>	<u>Nitrogen Oxides Grams per Mile</u>
0.39	9.0	1.0

The following are the certification emission values for this engine family:

<u>Hydrocarbons Grams per Mile</u>	<u>Carbon Monoxide Grams per Mile</u>	<u>Nitrogen Oxides Grams per Mile</u>
0.24	3.8	0.5

BE IT FURTHER RESOLVED: That the listed models were certified to the optional NOx emission standard thereby making the vehicle manufacturer subject to Section 1960.1.5 of Title 13, California Administrative Code which includes recall liability for emission control components up to 7 years or 75,000 miles if found defective by the Executive Officer.

BE IT FURTHER RESOLVED: That the listed vehicle models also comply with "California Evaporative Emission Standards and Test Procedures for 1978 and Subsequent Model Gasoline-Powered Motor Vehicles".

BE IT FURTHER RESOLVED: That the listed vehicle models also comply with the Board's "Specifications for Fill Pipes and Openings of Motor Vehicle Fuel Tanks" (Title 13, California Administrative Code, Section 2290) for the aforementioned model-year.

BE IT FURTHER RESOLVED: That the listed vehicle models also comply with the Board's high altitude requirements and highway emission standards as stipulated in "California Exhaust Emission Standards and Test Procedures for 1988 and Subsequent Model Passenger Cars, Light-Duty Trucks, and Medium-Duty Vehicles".

BE IT FURTHER RESOLVED: That the listed vehicle models also comply with the "California Motor Vehicle Tune-Up Label Specifications" (Title 13, California Administrative Code, Section 1965) for the aforementioned model year.


BE IT FURTHER RESOLVED: That the listed vehicle models also comply with the "Malfunction and Diagnostic System for 1988 and Subsequent Model Year[s] ..." (Title 13, California Administrative Code, Section 1968) for the aforementioned model year.

BE IT FURTHER RESOLVED: That for the listed vehicles, the manufacturer has submitted and the Executive Officer hereby approves the materials to demonstrate certification compliance with the Board's emission control system warranty regulations (Title 13, California Administrative Code, Section 2035 et seq.).

Vehicles certified under this Executive Order must conform to all applicable California emission regulations.

The Bureau of Automotive Repair will be notified by copy of this order and attachment.

Executed at El Monte, California this 24th day of March, 1987.


K. D. Drachand, Chief
Mobile Source Division

17-J3G2.5T5TEGX-1A

(For CARB Use Only)

(1988)

AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET

Manufacturer: General Motors Corporation

Executive Order No.: A-6-411

Engine Family: J3G2.5T5TEGX

Evaporative Family: JBO-3A

Engine Displacement Liters (Cubic Inches) - Type: 2.5 (151) - I-4

Exhaust Emission Control System (Special Features): EGR, TWC, OS, (CFI, OBD)

ABBREVIATIONS:

Ignition System

CA-Centrifugal Advance

ECU-Electronic Control Unit

EI-Electronic Ignition

ESAC-Electronic Spark Advance Control

VA-Vacuum Advance

VR-Vacuum Retard

Fuel System

FI, CL, DID, DIP, EFI, MFI

nV-nVenturi Carburetor

VV-Variable Venturi

Other Abbreviations

A/C-Air Conditioning

CID Cubic Inch Displacement

ETW-Equivalent Test Weight

FC Forward Control

HD-Heavy Duty

RI-Rail & Injector

RWD-Rear Wheel Drive

TBI-Throttle Body Injection

4x2-Two Wheel Drive

4x4-Four Wheel Drive

6x4-Four Wheel Drive

Exhaust Emission Control System

AIP-Air Injection Pump

AIV-Air Injection Valve

EGR-Exhaust Gas Recirculation

EIC-Electronic Injection Control

EM-Engine Modification

DBC-Dual Bed Catalyst

HOS-Heated Oxygen Sensor

OC-Oxidation Catalyst

OS-Oxygen Sensor

SPL-Smoke Puff Limiter or Throttle Delay

TOC-Trap Oxidizer, Continual

TOP-Trap Oxidizer, Periodical

TR-Thermal Reactor

TWC-Three-Way Catalyst

WUOC-Warm-up Oxidation Catalyst

WUTWC-Warm-up Three-Way Catalyst

Special Features

CCV-Combustion Chamber Valve

CFI-Central Fuel Injection

DID-Diesel Injection-Direct

DIP-Diesel Injection-Prechamber

EFI-Electronic Fuel Injection

IC-Intercooler/Aftercooler

MFI-Mechanical Fuel Injection

OBD-On Board Diagnostics

TC-Turbocharger

ISSUED: 03-12-87

REV. NO.:

0268T

17-J3G2.5T5TEGX-2A

(For CARB Use Only)
(1988)

AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET
LIGHT DUTY TRUCKS AND MEDIUM DUTY VEHICLES

Executive Order No. A-6-411

VEHICLE MODELS:

C C 1 0 7 0 3 + E 6 3 (EXAMPLE)

Digit 1
Selling Division

C-Chevrolet
T-GMC Truck

Digit 2
Chassis Type

C-Conventional 4x2
G-Forward Control 4x2
(Body Frame Integral)
K-Conventional 4x4
M-Forward Control 4x2
(Body Frame Integral)
P-Forward Control 4x2
(Conventional)
R-Conventional 4x2
-S10/15 4x2
T-S10/15 4x4
V-Conventional 4x4

Digit 3
Series/GVWR Range

1-3400 to 7300 lbs
2-6400 to 8600 lbs
3-7400 to 14500 lbs

Digits 4 & 5
CA Dimension/Model Type

05-Blazer/Jimmy, Step-Van/
Valve Van
06-S10/15
07-42"/Pickup, Chassis-Cab
08-FC or Motor Home Chassis,
Step-Van/Value Van
09-56"/Suburban, Chassis-
Cab, Pickup
10-60" FC Chassis, Chevy
Van/Vandura, Sportvan/
Rally, Chassis-Cab,
Step-Van/Value Van
11-Motor Home Chassis
13-Chevy Van/Vandura,
Sportvan/Rally, Cutaway
Van/Vandura Special,
Hi-Cube Van/Magnavan
14-84"/FC or Motor Home,
Chassis, Chassis-Cab,
Step-Van/Value Van
16-Cutaway Van/Vandura
Special, Hi-Cube Van/
Magnavan
18-Motor Home Chassis

Digits 6 & 7
Cab or Body Style

03-Conventional Cab
(S10/15, C-K, R-V
Models)
-Cutaway Van/Vandura
Special, Hi-Cube Van/
Magnavan (G Models)
05-Chevy Van/Vandura
06-Suburban/Sportvan/
Rally with Panel Rear
Doors
16-Blazer/Jimmy
32-Motor Home Chassis
42-Forward Control
Chassis, Step-Van/
Value Van
43-Bonus Cab, Crew Cab
53-Extended Cab
(S10/15 Models)

Digits 8, 9 & 10
Body Ordering Code

ZW9-Base Body
C6P-HD Chassis; 8600 lb GVWR
C7C-HD Chassis; 10500 lb GVWR
C7E-HD Chassis; 11000 lb GVWR
E31-Hi-Cube Van (10' Steel 96" Wide)
E32-Step-Van/Value Van (Steel)
E33-Step-Van/Value Van (Aluminum)

E34-Hi-Cube Van (10' Steel 82" Wide)
E36-Hi-Cube Van/Magnavan (10' Aluminum)
E37-Utility Box (Aluminum)
E38-Hi-Cube Van/Magnavan (12' Steel)
E39-Hi-Cube Van/Magnavan (12' Aluminum)
E62-Stepside/Fenderside Pickup
E63-Fleetwide/Wideside Pickup

Engine Location: Front (All Vehicles)
Drive Axle Location: See Chassis Type; All 4x2 Vehicles are RWD

ISSUED: 03-12-87

REV. NO.:

0268T

17-J3G2.5T5TEGX-3A

(For CARB Use Only)

(1988)

AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET

PASSENGER CARS___ LIGHT DUTY TRUCKS X MEDIUM DUTY VEHICLES___ GAS X DIESEL___

Liters (CID): 2.5 (151)

Type: I-4

Executive Order No. A-6-411

ENG CODE	VEH MODELS	TRANS TYPE	ETW	IGN SYSTEM (ECU) PART NO.	FUEL SYSTEM (TBI) PART NO.	EGR VALVE PART NO.	CATALYST PART NO.
1	S10603+E63 S10803+E63 S10653+E63 S10516	A3	3000 3125 3375	16069391	17087282	17087252	25103222
2	S10603+E63 S10803+E63 S10653+E63 S10516		3000 3125 3500				
3	S10603+E63 S10803+E63 S10653+E63 S10516	A4	3000 3125 3250 3375	16069421			
4	S10603+E63 S10803+E63 S10653+E63 S10516		3000 3125 3250 3500				
5	T10603+E63 T10803+E63 T10653+E63 T10516		3625	16069461			

Comments: See page one for abbreviations and family information. Please refer to manufacturer's HP lists for correct dyno test HP settings based on model and equipment. If two test weights are listed, the lower weight will be used for testing.

ISSUED: 03-12-87

REV. NO.:

0268T

17-J3G2.5T5TEGX-3.1A

(For CARB Use Only)

(1988)

AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET

PASSENGER CARS___ LIGHT DUTY TRUCKS X MEDIUM DUTY VEHICLES___ GAS X DIESEL___

Liters (CID): 2.5 (151)

Type: I-4

Executive Order No. A-6-411

ENG CODE	VEH MODELS	TRANS TYPE	ETW	IGN SYSTEM (ECU) PART NO.	FUEL SYSTEM (TBI) PART NO.	EGR VALVE PART NO.	CATALYST PART NO.
3A	S10603+E63 S10803+E63 S10653+E63 S10516	A4	3000 3125 3250 3375	16086761	17087282	17087252	25103222
4A	S10603+E63 S10803+E63 S10653+E63 S10516		3000 3125 3250 3500				
5A	T10603+E63 T10803+E63 T10653+E63 T10516			16086771			
			3625				

Comments: See page one for abbreviations and family information. Please refer to manufacturer's HP lists for correct dyno test HP settings based on model and equipment. If two test weights are listed, the lower weight will be used for testing.

ISSUED: 004

REV. NO.:

0268T/25T

17-J3G2.5T5TEGX-4A

(For CARB Use Only)

(1988)

AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET

PASSENGER CARS___ LIGHT DUTY TRUCKS X MEDIUM DUTY VEHICLES___ GAS X DIESEL___

Liters (CID): 2.5 (151)

Type: I-4

Executive Order No. A-6-411

ENG CODE	VEH MODELS	TRANS TYPE	ETW	IGN SYSTEM (ECU) PART NO.	FUEL SYSTEM (TBI) PART NO.	EGR VALVE PART NO.	CATALYST PART NO.
6	T10603+E63 T10803+E63 T10653+E63 T10516	A4	3500 3625 3750	16069461	17087282	17087252	25103222
7	M10905		3625	16069381	17087283		25057244
8	M10905						
9	S10603+E63 S10803+E63 S10653+E63	M4	3000 3125	16069441	17087282	17088114	25103222
10	S10603+E63 S10803+E63 S10653+E63		3000 3125				
11	S10516 T10603+E63 T10803+E63 T10653+E63 T10516		3375 3500 3625	16069321			

Comments: See page one for abbreviations and family information. Please refer to manufacturer's HP lists for correct dyno test HP settings based on model and equipment. If two test weights are listed, the lower weight will be used for testing.

ISSUED: 03-12-87

REV. NO.:

0268T

(For CARB Use Only)

(1988)

AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET

PASSENGER CARS___ LIGHT DUTY TRUCKS X MEDIUM DUTY VEHICLES___ GAS X DIESEL___

Liters (CID): 2.5 (151)

Type: I-4

Executive Order No. A-6-411

ENG CODE	VEH MODELS	TRANS TYPE	ETH	IGN SYSTEM (ECU) PART NO.	FUEL SYSTEM (TBI) PART NO.	EGR VALVE PART NO.	CATALYST PART NO.
6A	T10603+E63 T10803+E63 T10653+E63 T10516	A4	3500 3625 3750	16086771	17087282	17087252	25103222
7A	M10905		3625	16086781	17087283		25057244
8A	M10905						

Comments: See page one for abbreviations and family information. Please refer to manufacturer's HP lists for correct dyno test HP settings based on model and equipment. If two test weights are listed, the lower weight will be used for testing.

ISSUED: 004

REV. NO.:

6268T/25T

17-J3G2.5T5TEGX-5A

(For CARB Use Only)

(1988)

AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET

PASSENGER CARS___ LIGHT DUTY TRUCKS X MEDIUM DUTY VEHICLES___ GAS X DIESEL___

Liters (CID): 2.5 (151)

Type: I-4

Executive Order No. A-6-411

ENG CODE	VEH MODELS	TRANS TYPE	ETW	IGN SYSTEM (ECU) PART NO.	FUEL SYSTEM (TBI) PART NO.	EGR VALVE PART NO.	CATALYST PART NO.
12	S10516 T10603+E63 T10803+E63 T10653+E63 T10516	M4	3375 3500 3625	16069321	17087282	17088114	25103222
13	M10905			16069361	17087283		25057244
14	M10905						
15	S10603+E63 S10803+E63 S10653+E63 S10516	M5	3000 3125 3375	16069451	17087282		25103222
16	S10603+E63 S10803+E63 S10653+E63 S10516		3000 3125 3375				
17	T10603+E63 T10803+E63 T10653+E63 T10516		3500 3625	16069341			

Comments: See page one for abbreviations and family information. Please refer to manufacturer's HP lists for correct dyno test HP settings based on model and equipment. If two test weights are listed, the lower weight will be used for testing.

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REV. NO.:

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17-J3G2.5T5TEGX-6A

(For CARB Use Only)

(1988)

AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET

PASSENGER CARS___ LIGHT DUTY TRUCKS X MEDIUM DUTY VEHICLES___ GAS X DIESEL___

Liters (CID): 2.5 (151)

Type: I-4

Executive Order No. A-6-411

ENG CODE	VEH MODELS	TRANS TYPE	ETW	IGN SYSTEM	FUEL SYSTEM	EGR VALVE PART NO.	CATALYST PART NO.
				(ECU) PART NO.	(TBI) PART NO.		
18	T10603+E63 T10803+E63 T10653+E63 T10516	M5	3500 3625	16069341	17087282	17088114	25103222
19	M10905		3500	16069371	17087283		25057244
20	M10905						

Comments: See page one for abbreviations and family information. Please refer to manufacturer's HP lists for correct dyno test HP settings based on model and equipment. If two test weights are listed, the lower weight will be used for testing.

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